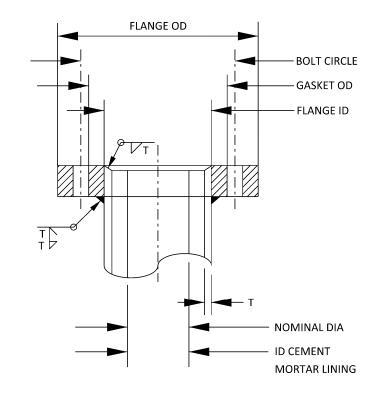
FLANGE DIMENSIONS												
PIPE	FLANGE		GASKET	BOLTS			BOLT HOLE	ВС				
DIA	OD	THICKNESS	OD	REQ'D	DIA	(NOTE 9) LENGTH	DIA	DIA				
4	9	5/8	6-7/8	8	5/8	2-1/2	3/4	7-1/2				
6	11	11/16	8-3/4	8	3/4	3	7/8	9-1/2				
8	13-1/2	11/16	11	8	3/4	3	7/8	11-3/4				
10	16	11/16	13-3/8	12	7/8	3-1/2	1	14-1/4				
12	19	13/16	16-1/8	12	7/8	3-1/2	1	17				
14	21	15/16	17-3/4	12	1	4	1-1/8	18-3/4				
15	22-1/2	1	19-1/4	12	1	4	1-1/8	20-1/4				
16	23-1/2	1	20-1/4	16	1	4	1-1/8	21-1/4				
18	25	1-1/16	21-5/8	16	1-1/8	4-1/2	1-1/4	22-3/4				
20	27-1/2	1-1/8	23-7/8	20	1-1/8	4-1/2	1-1/4	25				
21	28-1/2	1-3/16	24-3/4	20	1-1/4	5	1-3/8	26-1/4				
24	32	1-1/4	28-1/4	20	1-1/4	5	1-3/8	29-1/2				
27	35-1/2	1-5/16	35-1/2	28	1-1/4	5-1/2	1-3/8	33				
28	36-1/2	1-5/16	36-1/2	28	1-1/4	5-1/2	1-3/8	34				
30	38-3/4	1-3/8	38-3/4	28	1-1/4	5-1/2	1-3/8	36				
33	43-3/4	1-1/2	43-3/4	32	1-1/2	6	1-5/8	40-1/2				
36	46	1-5/8	46	32	1-1/2	6	1-5/8	42-3/4				
39	49-1/2	1-5/8	49-1/2	36	1-1/2	6-1/2	1-5/8	46-1/4				
42	53	1-3/4	53	36	1-1/2	6-1/2	1-5/8	49-1/2				
45	56-1/2	1-3/4	56-1/4	44	1-1/2	6-1/2	1-5/8	52-3/4				
48	59-1/2	1-3/4	59-1/2	44	1-1/2	6-1/2	1-5/8	56				
51	63	2	63	44	1-1/2	7	1-5/8	59-1/2				
54	66-1/4	2-1/4	66-1/4	44	1-3/4	7-1/2	2	62-3/4				



NOTES:

- 1. BOLT HOLES STRADDLE CENTER LINES AND ARE DRILLED PER ASA CLASS 125 DRILLING AND TO SPECIFICATIONS FOR AWWA STANDARD STEEL HUB FLANGES, EXCEPT AS NOTED
- 2. FLANGES SHALL NOT HAVE RAISED FACES. FLANGES SHALL BE FULL FACED AND HAVE SPIRAL OR CONCENTRIC SERRATIONS OVER THE ENTIRE FLANGE FACE OF APPROXIMATELY 32 SERRATIONS PER INCH APPROXIMATELY 1/64" DEEP.
- 3. HOLES SHALL BE DRILLED AFTER SERRATING FACES.
- 4. ALL DIMENSIONS ARE IN INCHES. TOLERANCES ARE:

FLANGE OD +/- 1/8
BOLT CIRCLE DIA +/- 1/16
FLANGE ID + 3/16" + 1/16
FLANGE THICKNESS +1/8 - 0
FLANGE ID NOTED ON PURCHASE ORDER.

- 5. FLANGES ARE DESIGNED FOR 175 PSI (COLD WATER)
 WORKING PRESSURE FOR SIZES THROUGH 12" AND 150 PSI
 FOR SIZES LARGER THAN 12".
- 6. FLANGES SHALL BE MADE AS SHOWN HEREIN AND FROM THE FOLLOWING TYPE OF STEEL PLATE UNLESS OTHERWISE STATED IN THE SPECIFICATIONS.

ASTM A 283C ASTM A 283D ASTM A-36

- 7. SCREWED FLANGES, WHERE REQUIRED, SHALL BE CRANE NO. 556 OR APPROVED EQUAL.
- 8. GASKETS FOR 27" DIA PIPE AND LARGER SHALL BE STANDARD FULL FACE GASKETS.
- 9. FOR STEEL FLANGES BOLTED TO CAST IRON FLANGES, USE BOLTS 1/2" LONGER THAN SHOWN.

 $\stackrel{\frown}{1}$ 10. BOLTS AND NUTS SHALL BE SAE J429 GRADE 5 OR ASTM A449 THROUGH 1-1/2" DIAMETER.

11. EACH FITTING TO HAVE A MINIMUM OF (2) TWO ZINC CAP ANODES FOR UP TO 1" DIA BOLTS AND (4) FOUR ZINC CAP ANODES FOR BOLTS OVER 1".

			REVISIONS	APPROVALS				
NO.	DATE	INITIAL	DESCRIPTION	APP'D	DATE		INITIAL	DATE
						DESIGN	<i>S</i> フン	7/2/64
						CONSTRUCTION		
3	9/11/20	GS	UPDATED TITLE BLOCK, LOGO, AND FONT	AGA	9/11/20	INSPECTION		
2	3/22/01	GR	REVISED TITLE BLOCK AND FILE ID NO			OPERATIONS		
$ \Lambda $	5/6/97	CRD	REV NOTES 10 &11; UPDATED W/CADD ON MYLAR	VJB	5/7/97	SUBMITTED	DCS	7/2/64
REFERENCES:				SCALE: NONE				•

FILE I.D.: \kauai\eng\std dwgs\B-288.dgn

DRAWN BY: CRD

RECOMMENDED.



DATE

DIRECTOR OF ENGINEERING

STANDARD DRAWING

STEEL FLANGES 4" - 54"

APPROVED Doyle J. Boen
CHIEF ENGINEER

7/2/64 DATE

B-288